

WHAT IS CLAIMED IS:

1. An upright type vacuum cleaner, comprising:

a cleaner body having an upper dust chamber, a lower motor driving chamber housing a motor, an air inflow path, and an air outflow path for interconnecting the upper dust chamber and the lower motor driving chamber;

a cyclone body mounted in an upper portion of the dust chamber and connected to the air inflow path and the air outflow path;

a dust barrel removably mounted to a lower side of the cyclone body;

a suction brush mounted on a lower portion of the cleaner body, movable along a cleaning surface; and

fine dust filtering means removably disposed in the air outflow path.

2. The vacuum cleaner of claim 1, wherein the cyclone body comprises:

a cover including an open end and a closed end, and a contaminant discharge port formed on the closed end; and

a head portion including an air inflow pipe connected to the air inflow path for guiding the air in a diagonal direction with respect to the cover, an air outflow pipe having one end connected to a grille, the grille extending toward the closed end of the cover and being connected to the air outflow path.

3. The vacuum cleaner of claim 2, wherein the closed end of the cover is a spiral surface.

4. The vacuum cleaner of claim 1, wherein the dust barrel is substantially cylindrical in shape and has an open end and a closed end, the open end aligning with the closed end of the cyclone body.



5. The vacuum cleaner of claim 1, wherein the dust barrel includes a handle formed on a sidewall thereof.

6. The vacuum cleaner of claim 1, further comprising locking/unlocking means for connecting or separating the dust barrel to or from the closed end of the cover of the cyclone body by raising or lowering the dust barrel in the dust chamber.

7. The vacuum cleaner of claim 6, wherein the locking/unlocking means comprises:

a slanted surface formed on the closed end of the dust barrel, the slanted surface extending in a curve and gradually increasing in depth from a center of the dust barrel to an outer edge of the dust barrel;

a fixing member including a rotary pin formed proximate a first end, a handle located at a second end, and a protrusion located between the first and second ends, the protrusion being received in and movable along the slanted surface; and

a base removably mounted in the dust chamber, the base having a hole formed therein for receiving the rotary pin and supporting movement of the fixing member with respect to the slanted surface.

8. An upright type vacuum cleaner comprising:

a cleaner body including a dust chamber, a motor driving chamber, an air inflow path, and an air outflow path, the air outflow path connecting the dust chamber with the motor driving chamber;

a suction brush pivotally coupled to the cleaner body;

a cyclone body mounted in the dust chamber in communication with the air inflow path and the air outflow path, the cyclone body including a head portion and a

cover, the head portion including a grille extending toward a closed end of the cover, the closed end of the cover having a spiral surface forming a contaminant discharge port; and

a removable dust barrel coupled to closed end of the cyclone body.

5           9.     The vacuum cleaner of claim 8, wherein each of the cover of the cyclone body and the dust barrel is substantially cylindrical in shape.

10.     The vacuum cleaner of claim 8, wherein the dust barrel has a handle formed on an outer sidewall thereof.

10           11.     The vacuum cleaner of claim 8, wherein a curved, slanted surface is formed in a closed end of the dust barrel, the slanted surface extending from a center of the closed end to an outer edge of the dust barrel and gradually increasing in depth, and further comprising a connection assembly for connecting the dust barrel to the cyclone body, the connection assembly including:

15                 a fixing member having a first end and a second end, the fixing member including a pin located proximate the first end, a handle at the second end, and a protrusion located between the first and second ends, the protrusion extending upward and being received in the slanted recess of the dust barrel; and

               a base removably mounted in the dust chamber, the base having a hole formed therein for receiving the pin of the fixing member.

20           12.     The vacuum cleaner of claim 8, further comprising a fine dust filter located in the air outflow path.